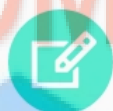
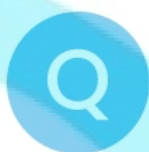


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QUIZZES

Practice test-1(Carboxylic Acids)



10 Questions



7 min

Topics

Nomenclature, Classification and Physical Properties of Carboxylic Acids, Preparations and Reactivity of carboxylic acids

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

06 : 58



1/10



7 min



Hint

Q : Which of the following is not a fatty acid:

A

Formic acid

B

Palmitic acid

C

Stearic acid

D

All are fatty acids

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 56



2/10



7 min



Hint

Q : Which of the following is most acidic in nature:

A

Fluoroacetic acid

B

Nitroacetic acid

C

Acetic acid

D

Aminoacetic acid

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 54



3/10



7 min



Hint

Q : Which of the following is a cyclic carboxylic acid:

A

Phthalic acid

B

Oxalic acid

C

Lactic acid

D

Succinic acid

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 52



4/10



7 min



Hint

Q : Butyric acid was first isolated from



Butter



Vinegar



Milk



Red ant

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 49



5/10



7 min



Hint

Q : Even carbon carboxylic acids have ____ melting point than the next lower and higher members having odd carbon atoms.

A

Higher

B

Lower

C

Equal

D

none of these

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 46



6/10



7 min



Hint

Q : 2-Butene when heated with alkaline KMnO_4 gives

A

Glycol

B

Glyoxal

C

Carboxylic acid

D

Ester

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 44



7/10



7 min



Hint

Q : Glacial acetic acid freezes to ice like solid at



8⁰C



25⁰C



39⁰C



17⁰C

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 41



8/10



7 min



Hint

Q : Which one is aliphatic dicarboxylic acid

A

Ethanoic acid

B

Oxalic acid

C

Benzoic acid

D

Phthalic acid

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

6

7

8

9

10

06 : 39



9/10



7 min



Hint

Q : Phthalic acid is also called

A

Benzoic acid

B

1, 2-benzenedicarboxylic acid

C

1, 3-benzenedicarboxylic acid

D

1, 4-benzenedicarboxylic acid

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

6

7

8

9

10

06 : 35



10/10



7 min



Hint

Q : The boiling points of carboxylic acids are _____ than their corresponding alkanes.

A

Low due to low molecular masses

B

High due to hydrogen bonding

C

High due to high molecular masses

D

Low due to weak intermolecular forces

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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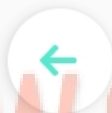
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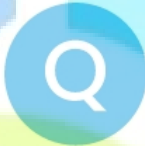
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10



QUIZ RESULT

Practice test-1(Carboxylic Acids)



10



7 min



01-May-2021



0 sec



0/10



0.0%

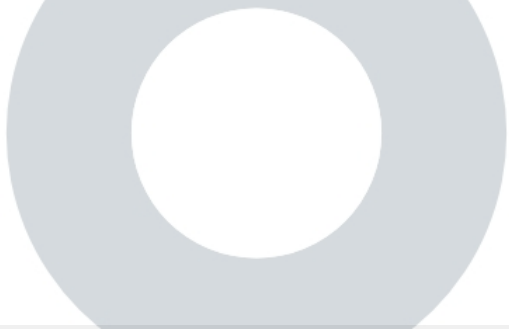
SAEED MDCAT

Result Detail

SAEED MDCAT TEAM



SAEEDMDCAT





Practice test-1(Carboxylic Acids)



Correct



Unattempted



Incorrect



1/10

Q : Which of the following is not a fatty acid:

A

Formic acid

B

Palmitic acid

C

Stearic acid

D

All are fatty acids

Explanation

Aliphatic mono-carboxylic acid and fatty acid.



SAEEDMDCAT

1

2

3

4

5

6

7



Practice test-1(Carboxylic Acids)



Correct



Unattempted



Incorrect



2/10

Q : Which of the following is most acidic in nature:

A

Fluoroacetic acid

B

Nitroacetic acid

C

Acetic acid

D

Aminoacetic acid

Explanation

Electron withdrawing group increases acidic character of carboxylic acid



SAEEDMDCAT

1

2

3

4

5

6

7



Practice test-1(Carboxylic Acids)



Correct



Unattempted



Incorrect



3/10

Q : Which of the following is a cyclic carboxylic acid:

A

Phthalic acid

B

Oxalic acid

C

Lactic acid

D

Succinic acid

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7



Practice test-1(Carboxylic Acids)



Correct



Unattempted



Incorrect



4/10

Q : Butyric acid was first isolated from

A

Butter

B

Vinegar

C

Milk

D

Red ant

Explanation

book information



SAEEDMDCAT

1

2

3

4

5

6

7



Practice test-1(Carboxylic Acids)



Correct



Unattempted



Incorrect



5/10

Q : Even carbon carboxylic acids have ____ melting point than the next lower and higher members having odd carbon atoms.



Higher



Lower



Equal



none of these

Explanation

Even carbon carboxylic acid are converted into cyclic form.

1

2

3

4

5

6

7



Practice test-1(Carboxylic Acids)



Correct



Unattempted



Incorrect



6/10

Q : 2-Butene when heated with alkaline KMnO_4 gives

A

Glycol

B

Glyoxal

C

Carboxylic acid

D

Ester

Explanation

oxidative cleavage reaction



SAEEDMDCAT

1

2

3

4

5

6

7



Practice test-1(Carboxylic Acids)



Correct



Unattempted



Incorrect



7/10

Q : Glacial acetic acid freezes to ice like solid at

A

8⁰C

B

25⁰C

C

39⁰C

D

17⁰C

Explanation

book information



SAEEDMDCAT

1

2

3

4

5

6

7



Practice test-1(Carboxylic Acids)



Correct



Unattempted



Incorrect



8/10

Q : Which one is aliphatic dicarboxylic acid

A

Ethanoic acid

B

Oxalic acid

C

Benzoic acid

D

Phthalic acid

Explanation

book information



SAEEDMDCAT

4

5

6

7

8

9

10



Practice test-1(Carboxylic Acids)



Correct



Unattempted



Incorrect



9/10

Q : Phthalic acid is also called

A

Benzoic acid

B

1, 2-benzenedicarboxylic acid

C

1, 3-benzenedicarboxylic acid

D

1, 4-benzendicarboxylic acid

Explanation

IUPAC name



SAEEDMDCAT

4

5

6

7

8

9

10



Practice test-1(Carboxylic Acids)



Correct



Unattempted



Incorrect



10/10

Q : The boiling points of carboxylic acids are _____ than their corresponding alkanes.

A

Low due to low molecular masses

B

High due to hydrogen bonding

C

High due to high molecular masses

D

Low due to weak intermolecular forces

Explanation

SAEED MDCAT TEAM
polar hydroxyl group causes hydrogen bonding



SAEEDMDCAT

4

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Practice test-2 (Carboxylic Acids)



10



7 min



01-May-2021



0 sec

SAEED MDCAT



0/10



0.0%

SAEED MDCAT TEAM



SAEEDMDCAT

06 : 58



1/10



7 min



Hint

Q : Which of the following compound will convert acetic acid to acetyl chloride:

A

NaCl

B

HCl

C

ZnCl₂

D

SOCl₂

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 55



2/10



7 min



Hint

Q : Acetic acid undergoes reduction with LiAlH_4 to give:

A

Ethanol

B

Methanol

C

Ethane

D

Methane

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 53



3/10



7 min



Hint

Q : Ammonium acetate on strong heating gives

A

Ammonium carbamate

B

Acetamide

C

Urea

D

Ammonia

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 50



4/10



7 min



Hint

Q : The dehydration of the carboxylic acids in the presence of P_2O_5 and strong heating yields

A

Ester

B

Ether

C

anhydride

D

ketone

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 48



5/10



7 min



Hint

Q : Which reagent is used to reduce a carboxylic acid to an alkane?

A

H_2 / Ni

B

HI / P

C

NaBH_4

D

LiAlH_4

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 46



6/10

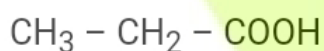
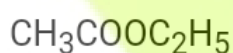
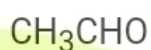
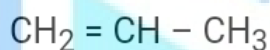


7 min



Hint

Q : An aqueous solution of an organic compound reacts with Na_2CO_3 to produce CO_2 gas. The organic compound is



SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

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06 : 43



7/10



7 min



Hint

Q : Acetamide is prepared by

A

Heating $\text{CH}_3\text{COONH}_4$

B

heating CH_3CN

C

heating $\text{CH}_3\text{COOC}_2\text{H}_5$

D

hydrolysis of CH_3CN

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 39



8/10



7 min



Hint

Q : 2-Hydroxylpropanoic acid is called___and 2,3-Dihydroxybutandioic acid is called___.

A

Oxalic acid, Maleic acid

B

lactic acid, tartaric acid

C

citric acid, aspartic acid

D

None of these

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

6

7

8

9

10

06 : 37



9/10



7 min



Hint

Q : The reactivity of carboxylic acids is due to the presence of ____group.

A

Carbonyl group

B

hydroxyl group

C

ester group

D

Both A and B

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

5

6

7

8

9

10

06 : 35



10/10



7 min



Hint

Q : Organic compounds X and Y react to form organic compound Z. what type of compounds can X, Y and Z be?

A

X	Y	Z
Alcohol	ester	acid

B

X	Y	Z
Acid	ester	alcohol

C

X	Y	Z
Ester	alcohol	acid

D

X	Y	Z
Alcohol	acid	ester

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

4

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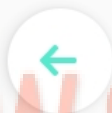
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QUIZ RESULT

Practice test-2(Carboxylic Acids)



10



7 min



01-May-2021



0 sec



0/10



0.0%

SAEED MDCAT

Result Detail

SAEED MDCAT TEAM



SAEEDMDCAT





Practice test-2(Carboxylic Acids)



Correct



Unattempted



Incorrect



1/10

Q : Which of the following compound will convert acetic acid to acetyl chloride:

A

NaCl

B

HCl

C

ZnCl₂

D

SOCl₂

Explanation

SAEED MDCAT TEAM

Thionyl chloride can replace OH group with Cl



SAEEDMDCAT

1

2

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Practice test-2(Carboxylic Acids)



Correct



Unattempted



Incorrect



2/10

Q : Acetic acid undergoes reduction with LiAlH_4 to give:



Ethanol



Methanol



Ethane



Methane

Explanation

SAEED MDCAT TEAM

Partial reduction of acetic acid gives ethanol



SAEEDMDCAT

1

2

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Practice test-2(Carboxylic Acids)



Correct



Unattempted



Incorrect



3/10

Q : Ammonium acetate on strong heating gives

A

Ammonium carbamate

B

Acetamide

C

Urea

D

Ammonia

Explanation

Acetamide cannot be prepared directly



SAEEDMDCAT

1

2

3

4

5

6

7



Practice test-2(Carboxylic Acids)



Correct



Unattempted



Incorrect



4/10

Q : The dehydration of the carboxylic acids in the presence of P_2O_5 and strong heating yields

A

Ester

B

Ether

C

anhydride

D

ketone

Explanation

SAEED MDCAT TEAM

dehydration takes place with P_2O_5



SAEEDMDCAT

1

2

3

4

5

6

7



Practice test-2(Carboxylic Acids)



Correct



Unattempted



Incorrect



5/10

Q : Which reagent is used to reduce a carboxylic acid to an alkane?



H_2 / Ni



HI / P



NaBH_4



LiAlH_4

Explanation

SAEED MDCAT TEAM

LiAlH_4 is the reducing agent which is used to converted carboxylic acid into alcohol.



SAEEDMDCAT

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Practice test-2(Carboxylic Acids)



Correct



Unattempted



Incorrect



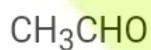
6/10

Q : An aqueous solution of an organic compound reacts with Na_2CO_3 to produce CO_2 gas. The organic compound is

A



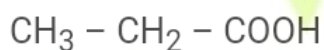
B



C



D



Explanation

SAEED MDCAT TEAM

Decarboxylation process.



SAEEDMDCAT

1

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4

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7



Practice test-2(Carboxylic Acids)



Correct



Unattempted



Incorrect



7/10

Q : Acetamide is prepared by

A

Heating $\text{CH}_3\text{COONH}_4$

B

heating CH_3CN

C

heating $\text{CH}_3\text{COOC}_2\text{H}_5$

D

hydrolysis of CH_3CN

Explanation

book information



SAEEDMDCAT

1

2

3

4

5

6

7



Practice test-2(Carboxylic Acids)



Correct



Unattempted



Incorrect



8/10

Q : 2-Hydroxylpropanoic acid is called___and 2,3-Dihydroxybutandioic acid is called___.

A

Oxalic acid, Maleic acid

B

lactic acid, tartaric acid

C

citric acid, aspartic acid

D

None of these

Explanation

SAEED MDCAT TEAM

IUPAC names



SAEEDMDCAT

4

5

6

7

8

9

10



Practice test-2(Carboxylic Acids)



Correct



Unattempted



Incorrect



9/10

Q : The reactivity of carboxylic acids is due to the presence of ____group.

A

Carbonyl group

B

hydroxyl group

C

ester group

D

Both A and B

Explanation

SAEED MDCAT TEAM

both groups give corresponding reactions



SAEEDMDCAT

4

5

6

7

8

9

10



Practice test-2(Carboxylic Acids)



Correct



Unattempted



Incorrect



10/10

Q : Organic compounds X and Y react to form organic compound Z. what type of compounds can X, Y and Z be?

A

X

Alcohol

Y

ester

Z

acid

B

X

Acid

Y

ester

Z

alcohol

C

X

Ester

Y

alcohol

Z

acid

D

X

Alcohol

Y

acid

Z

ester

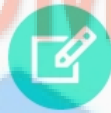
Explanation



SAEEDMDCAT

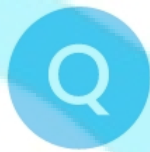
Esterification

WWW.SAEEDMDCAT.COM



QUIZZES

Practice test-1(Macromolecules)



10 Questions



7 min

Topics

Proteins, Role of enzymes as biocatalysts

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

06 : 59



1/10



7 min



Hint

Q :

In formation of protein, carboxylic group of one amino acid and amino

group of other amino acid condensed together to give:



Peptide linkage



Ester linkage



1 → 6 glycosidic linkage



β 1-4 Glycosidic linkage



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 57



2/10



7 min



Hint

Q :

The three dimensional twisting and folding of polypeptide chain results in:

A

Primary structure

B

Secondary structure

C

Tertiary structure

D

Quaternary structure

1

2

3

4

5

6

7

06 : 55



3/10



7 min



Hint

Q :

Which of following is / are examples of simple protein.



Polypeptide



Collagen and albumin



Phospo proteins



Peptones

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 52



4/10



7 min



Hint

Q :

The secondary structure of protein is maintained by H-bonding between



N and H



O and H



O and C



C and H

1

2

3

4

5

6

7

06 : 50



5/10



7 min



Hint

Q :

The molecular weight of protein is

A

> 1000 amu.) < 1000 amu.

B

< 1000 amu.

C

> 10000 amu.

D

< 10000 amu.

1

2

3

4

5

6

7

06 : 47



6/10



7 min



Hint

Q :

Which enzyme is used to catalyze the addition of ammonia, water or carbon dioxide to double bond

A

Phospho-transferase

B

Phospho-glyceromutases

C

Fumarase

D

Succinic thiokinase

1

2

3

4

5

6

7

06 : 44



7/10



7 min



Hint

Q :

Many enzymes contain a protein part and non protein part. This protein part is_____



Apoenzyme



Holoenzyme



Co-factor



Co-enzyme

1

2

3

4

5

6

7

06 : 42



8/10



7 min



Hint

Q :

Which statement is incorrect

A

Enzymes are stereo specific

B

Enzymes are highly specific

C

Enzymes can be crystallized

D

Enzyme can resist the radiation

4

5

6

7

8

9

10



SAEEDMDCAT

06 : 40



9/10



7 min



Hint

Q :

Indicate the enzyme which catalyses the following reaction

A

Zymase

B

Invertase

C

Urease

D

Diastase

4

5

6

7

8

9

10

06 : 37



10/10



7 min



Hint

Q :

The formation of $\text{SO}_3(\text{g})$ from $\text{SO}_2(\text{g})$ and $\text{O}_2(\text{g})$ in the lead chamber process for the manufacture of sulphuric acid is the example of

A

Homogeneous catalysis

B

Heterogeneous catalysis

C

Auto catalyzes

D

Negative catalyses

4

5

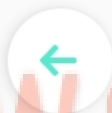
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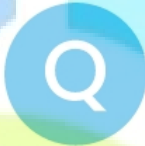
9

10



QUIZ RESULT

Practice test-1(Macromolecules)



10



7 min



01-May-2021



0 sec



0/10



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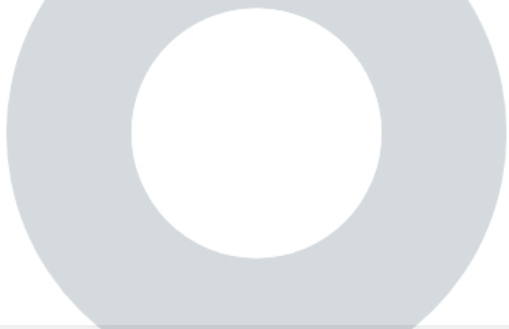
SAEED MDCAT

Result Detail

SAEED MDCAT TEAM



SAEEDMDCAT





Practice test-1(Macromolecules)

Q:

In formation of protein, carboxylic group of one amino acid and amino group of other amino acid condensed together to give:

A

Peptide linkage

B

Ester linkage

C

1 → 6 glycosidic linkage

D

β 1-4 Glycosidic linkage

Explanation



SAEEDMDCAT

Peptide linkage formed by the combination of carboxylic acid and amino group

1

2

3

4

5

6

7



Practice test-1(Macromolecules)

Incorrect



2/10

Q :

The three dimensional twisting and folding of polypeptide chain results in:

A

Primary structure

B

Secondary structure

C

Tertiary structure

D

Quaternary structure



Explanation

SAEEDMDCAT

The three dimensional twisting and folding of polypeptide chain results in tertiary structure

1

2

3

4

5

6

7



Practice test-1(Macromolecules)



Correct



Unattempted



Incorrect



3/10

Q :

Which of following is / are examples of simple protein.

A

Polypeptide

B

Collagen and albumin

C

Phospo proteins

D

Peptones

Explanation



SAEEDMDCAT

Albumins globulins legumin and collagen are examples of simple proteins

1

2

3

4

5

6

7



Practice test-1(Macromolecules)

Q :

The secondary structure of protein is maintained by H-bonding between

A

N and H

B

O and H

C

O and C

D

C and H

Explanation



SAEEDMDCAT

Hydrogen bonding exist between O atom and H atom in secondary proteins

1

2

3

4

5

6

7



Practice test-1(Macromolecules)

Q :

The molecular weight of protein is

A

> 1000 amu.) < 1000 amu.

B

< 1000 amu.

C

> 10000 amu.

D

< 10000 amu.



Explanation

SAEEDMDCAT

The molecular weight of protein is greater than 10000 amu

1

2

3

4

5

6

7



Practice test-1(Macromolecules)

Q :

Which enzyme is used to catalyze the addition of ammonia, water or carbon dioxide to double bond

A

Phospho-transferase

B

Phospho-glyceromutases

C

Fumarase

D

Succinic thiokinase



Explanation

SAEEDMDCAT

Phospho-glyceromutases is used to catalyze the addition of

1

2

3

4

5

6

7



Practice test-1(Macromolecules)



Incorrect



7/10

Q :

Many enzymes contain a protein part and non protein part. This protein part is_____

A

Apoenzyme

B

Holoenzyme

C

Co-factor

D

Co-enzyme



Explanation

SAEEDMDCAT

protein part of enzyme is apoenzyme

1

2

3

4

5

6

7



Practice test-1(Macromolecules)



Incorrect



8/10

Q:

Which statement is incorrect

A

Enzymes are stereo specific

B

Enzymes are highly specific

C

Enzymes can be crystallized

D

Enzyme can resist the radiation



Explanation

Enzyme can denature by radiation.

3

4

5

6

7

8

9



Practice test-1(Macromolecules)

Q :

Indicate the enzyme which catalyses the following reaction

A

Zymase

B

Invertase

C

Urease

D

Diastase



Explanation

SAEEDMDCAT

The enzyme which act at urea is called Urease



Practice test-1(Macromolecules)

Q:

The formation of $\text{SO}_3(\text{g})$ from $\text{SO}_2(\text{g})$ and $\text{O}_2(\text{g})$ in the lead chamber process for the manufacture of sulphuric acid is the example of

A

Homogeneous catalysis

B

Heterogeneous catalysis

C

Auto catalyzes

D

Negative catalyses



Explanation

It needs $\text{NO}(\text{g})$ as a catalyst. Both the reactants and the catalyst are gases.